

# EAST Search History (51 pp.) *JK*

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	20291	((257/662) or (257/663) or (257/664) or (257/700) or (257/750) or (257/758) or (257/773) or (257/775) or (257/776) or (257/690) or (257/691) or (257/692) or (333/26) or (333/32) or (333/33) or (333/116) or (333/124) or (333/204) or (343/820) or (343/822) or (343/850) or (333/852) or (343/860)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/13 19:51
L2	201	1 and (slit through-hole aperture) and (ground adj (plate plane)) and (signal transmission) adj line and @ad<"20000920"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 19:54
S1	6974	((257/662) or (257/664) or (257/211) or (257/690) or (257/691) or (257/692) or (257/275) or (333/26) or (333/32) or (333/33) or (333/116) or (333/124) or (333/204)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/09 20:59
S2	402	S1 and ((signal transmission) adj line microstrip) and ground adj (plate plane line) and impedance and (hole through-hole aperture opening)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/09 21:00
S3	20	((("257/662") or ("257/663") or ("257/664") or ("257/275") or ("257/758") or ("257/211") or ("257/690") or ("257/691") or ("257/692")).CCLS.) and ((hole or aperture or gap) near15 ((signal or transmission) adj2 line)) near15 (capacitance or impedance or signal adj speed or propagation adj speed)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 21:24
S4	15	((("257/662") or ("257/664") or ("257/275") or ("257/758") or ("257/211") or ("257/690") or ("257/691") or ("257/692")).CCLS.) and ((hole or aperture or gap) near15 ((signal or transmission) adj2 line)) near15 (capacitance or impedance or signal adj speed or propagation adj speed)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 08:35

## EAST Search History

S5	27	((("257/662") or ("257/664") or ("257/275") or ("257/758") or ("257/211") or ("257/690") or ("257/691") or ("257/692")).CCLS.) and (hole or through-hole) near15 (transmission or signal) adj2 line and (impedance or capacitance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/02/08 12:24
S6	2	((("JP-5166965") or ("4896194"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/02/08 12:40
S7	51	((((257/662) or (257/664) or (257/275) or (257/758) or (257/211) or (257/690) or (257/691) or (257/692)).CCLS.) and ((ground adj plate or signal adj line) near12 (hole or through-hole or slit)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/07/18 12:34
S8	2	((((257/662) or (257/664) or (257/275) or (257/758) or (257/211) or (257/690) or (257/691) or (257/692)).CCLS.) and ((ground adj plate or signal adj line) near12 (hole or through-hole or slit))) near12 impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/07/18 12:35
S9	0	(hole or through-hole) near6 ground adj plate near6 impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/29 08:05
S10	20	(hole or through-hole) near12 ground adj (plane or plate) near12 impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/29 08:05
S11	11	(hole or through-hole) near6 ground adj (plane or plate) near6 impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/29 08:06
S12	21	(die or chip) near1 architecture.ti, ab. and "257"/\$6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/29 10:30

## EAST Search History

S13	2	("6111289").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/10/30 10:05
S14	30	(((257/662) or (257/664) or (257/275) or (257/758) or (257/211) or (257/690) or (257/691) or (257/692)).CCLS.) and transmission adj line and microstrip and impedance and capacitance and (opening or hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 11:28
S15	40	(((257/690) or (257/692) or (257/691)).CCLS.) or "333"/\$6. ccls.) and transmission adj line and (microstrip or microstripline) and capacitance and (impedance or resistance or conductance) near15 (opening or hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/26 21:09
S16	34	((((257/690) or (257/692) or (257/691)).CCLS.) or "333"/\$6. ccls.) and transmission adj line and (microstrip or microstripline) and capacitance and (impedance or resistance or conductance) near15 (opening or hole)) not (((257/662) or (257/664) or (257/275) or (257/758) or (257/211) or (257/690) or (257/691) or (257/692)).CCLS.) and transmission adj line and microstrip and impedance and capacitance and (opening or hole))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/26 21:21
S17	1	(((333/81A) or (333/116) or (333/124) or (333/204)).CCLS.) and hole near12 (impedance or resistance) near12 capacitance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 16:27
S18	1	(((333/81A) or (333/116) or (333/124) or (333/204)).CCLS.) and (opening or hole) near12 (impedance or resistance) near12 capacitance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 10:14
S19	87	((333/81A).CCLS.) and (opening or through-hole or hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 10:19

## EAST Search History

S20	3	((333/124).CCLS.) and (hole or through-hole or opening) and (microstripline or micro-stripline or micro adj stripline or micro adj strip adj line or microstrip adj line or microstrip adj line or microstrip-line)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 15:10
S21	96	((333/204).CCLS.) and (hole or through-hole or opening) and (microstripline or micro-stripline or micro adj stripline or micro adj strip adj line or microstrip adj line or microstrip adj line or microstrip-line)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 15:02
S22	31	((333/204).CCLS.) and (hole or through-hole or opening or cavity) near15 microstrip	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 11:08
S23	46	((((257/662) or (257/664) or (257/275) or (257/758) or (257/211) or (257/690) or (257/691) or (257/692)).CCLS.) and (microstrip or micro-strip or microstripline or micro-strip or micro-stripline) near15 (opening or hole or through-hole or cavity)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 11:38
S24	60	((((257/662) or (257/664) or (257/275) or (257/758) or (257/211) or (257/690) or (257/691) or (257/692)).CCLS.) and (microstrip or micro-strip or microstripline or micro-strip or micro-stripline) near15 (opening or hole or through-hole or cavity or slot)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 15:00
S25	2	jp-52002172\$-\$\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 15:08
S26	0	slot-coupled adj feed and microstrip	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 15:11
S27	0	slot-coupled adj feed and transmission adj line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 15:11

## EAST Search History

S28	17	slotted adj microstrip	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 16:21
S29	1	slotted adj microstrip adj line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 16:28
S30	1	slotted adj (microstrip adj line or microstripline)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 16:30
S31	26	(slotted or slot or opening or hole or through-hole) adj (microstrip adj line or microstripline)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 16:31
S32	12	(slotted or slot or opening or hole or through-hole) adj (microstrip adj line or microstripline).ti,ab, clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 16:31
S33	34	(US-6160313-\$ or US-5962926-\$ or US-5666009-\$ or US-4383226-\$ or US-5801599-\$ or US-4896194-\$ or US-5739560-\$ or US-5744858-\$ or US-4879588-\$ or US-5185650-\$ or US-6437431-\$ or US-5304819-\$ or US-5117277-\$ or US-3869787-\$ or US-6455880-\$ or US-5986521-\$ or US-5894154-\$ or US-6066878-\$ or US-6229180-\$ or US-5903239-\$ or US-3784883-\$ or US-4875087-\$ or US-5352998-\$ or US-6344667-\$ or US-6441471-\$ or US-5294824-\$).did. or (US-20010038146-\$).did. or (JP-05166965-\$ or JP-06120711-\$ or JP-57129473-\$ or JP-62293801-\$ or JP-05226497-\$).did. or (JP-08335803-\$ or JP-60113502-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/11/27 16:43

## EAST Search History

S34	34	((US-6160313-\$ or US-5962926-\$ or US-5666009-\$ or US-4383226-\$ or US-5801599-\$ or US-4896194-\$ or US-5739560-\$ or US-5744858-\$ or US-4879588-\$ or US-5185650-\$ or US-6437431-\$ or US-5304819-\$ or US-5117277-\$ or US-3869787-\$ or US-6455880-\$ or US-5986521-\$ or US-5894154-\$ or US-6066878-\$ or US-6229180-\$ or US-5903239-\$ or US-3784883-\$ or US-4875087-\$ or US-5352998-\$ or US-6344667-\$ or US-6441471-\$ or US-5294824-\$).did. or (US-20010038146-\$).did. or (JP-05166965-\$ or JP-06120711-\$ or JP-57129473-\$ or JP-62293801-\$ or JP-05226497-\$).did. or (JP-08335803-\$ or JP-60113502-\$).did.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 16:55
S35	0	bhattacharya.in. and shafai.in. and slot and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 16:56
S36	0	bhattacharya.in. and shafai.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 16:56
S37	49	shafai.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 16:56
S38	0	shafai.in. and impedance and slot	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 16:56
S39	4	shafai.in. and slot	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 19:13
S40	193	integrated adj circuit and microstrip adj antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 17:03

## EAST Search History

S41	50	integrated adj circuit and microstrip adj antenna and slot and ground adj (plane or plate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 17:04
S42	32	integrated adj circuit and microstrip adj antenna and slot and ground adj (plane or plate) and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 17:04
S43	14	integrated adj circuit and microstrip adj antenna and (slot with microstrip) and ground adj (plane or plate) and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 17:06
S44	3	semiconductor near6 integrated adj circuit and microstrip adj antenna and (slot with microstrip) and ground adj (plane or plate) and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 17:13
S45	0	semiconductor near6 integrated adj circuit and microstrip and scanning adj antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 17:14
S46	0	semiconductor near6 integrated adj circuit and scanning adj antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 17:14
S47	76	integrated adj circuit and scanning adj antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 17:14
S48	0	semiconductor and integrated adj circuit.ti,ab,clm. and scanning adj antenna.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 17:15
S49	18	semiconductor and integrated adj circuit and scanning adj antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 17:18
S50	0	scanning adj array adj antenna.ti, ab. and integrated.ti,ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 17:19

## EAST Search History

S51	19	scanning adj2 antenna.ti,ab. and integrated.ti,ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 17:20
S52	1	scanning adj2 antenna.ti,ab. and integrated.ti,ab. and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 17:20
S53	34	(US-5185650-\$ or US-6437431-\$ or US-5666009-\$ or US-5962926-\$ or US-6160313-\$ or US-4383226-\$ or US-5801599-\$ or US-4896194-\$ or US-5739560-\$ or US-5744858-\$ or US-4879588-\$ or US-5903239-\$ or US-3784883-\$ or US-4875087-\$ or US-5352998-\$ or US-6344667-\$ or US-6441471-\$ or US-5294824-\$ or US-6229180-\$ or US-5894154-\$ or US-5986521-\$ or US-6455880-\$ or US-3869787-\$ or US-5117277-\$ or US-5304819-\$ or US-6356173-\$).did. or (US-20010038146-\$).did. or (JP-05166965-\$ or JP-62293801-\$ or JP-05226497-\$ or JP-06120711-\$ or JP-57129473-\$).did. or (JP-08335803-\$ or JP-60113502-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/11/27 18:44
S54	34	((US-5185650-\$ or US-6437431-\$ or US-5666009-\$ or US-5962926-\$ or US-6160313-\$ or US-4383226-\$ or US-5801599-\$ or US-4896194-\$ or US-5739560-\$ or US-5744858-\$ or US-4879588-\$ or US-5903239-\$ or US-3784883-\$ or US-4875087-\$ or US-5352998-\$ or US-6344667-\$ or US-6441471-\$ or US-5294824-\$ or US-6229180-\$ or US-5894154-\$ or US-5986521-\$ or US-6455880-\$ or US-3869787-\$ or US-5117277-\$ or US-5304819-\$ or US-6356173-\$).did. or (US-20010038146-\$).did. or (JP-05166965-\$ or JP-62293801-\$ or JP-05226497-\$ or JP-06120711-\$ or JP-57129473-\$).did. or (JP-08335803-\$ or JP-60113502-\$).did.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/11/27 18:44



## EAST Search History

S55	0	miyagi.in. and "10-050779"	JPO	OR	ON	2002/11/27 19:14
S56	16	miyagi.in. and wiring adj board.ti.	JPO	OR	ON	2002/11/27 20:14
S57	2	jp-11251490\$-\$.did.	JPO; DERWENT	OR	ON	2002/11/27 20:44
S58	2	("4947178").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2002/11/27 20:45
S59	11342	microstrip.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 21:13
S60	475	microstrip.ti,ab,clm. and signal adj line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 21:14
S61	15	(microstrip.ti,ab,clm. and signal adj line) and ground adj plate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 21:15
S62	2	((microstrip.ti,ab,clm. and signal adj line) and ground adj plate) and (through-hole or through adj hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 21:16
S63	3	"6175287"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/10 16:22
S64	2	("6175287").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/05/10 16:22
S65	1	((("6175287").PN.) and signal adj line and (microstrip or microstripline)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/10 16:28

## EAST Search History

S66	216	(through-hole or hole or opening) near12 (microstrip or microstripline) and impedance.ti, ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/10 16:29
S67	47	(through-hole or hole or opening) near12 (microstrip or microstripline) near12 impedance and impedance.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/10 16:29
S68	25	(through-hole or hole or opening) near6 (microstrip or microstripline) near6 impedance and impedance.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/10 19:00
S69	466	impedance adj matching and microstrip and aperture	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/10 19:01
S70	32	impedance adj matching.ti,ab,clm. and microstrip.ti,ab,clm. and aperture.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/10 19:06
S71	24	impedance adj matching.ti,ab,clm. and microstrip.ti,ab,clm. near6 slot.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/10 19:31
S72	0	pozar.in. and plurality near6 (slot or aperture)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/10 19:31
S73	47	impedance adj matching and microstrip.ti,ab,clm. and plurality near6 (slot or aperture)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/10 19:32
S74	12	impedance adj matching.ti,ab,clm. and microstrip.ti,ab,clm. and plurality near6 (slot or aperture)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/10 19:32
S75	11	impedance adj matching.ti,ab,clm. and microstrip.ti,ab,clm. and plurality near3 (slot or aperture)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/10 19:37

## EAST Search History

S76	2	("6127901").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/05/10 19:37
S77	0	("pozar.in.").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/05/11 12:40
S78	12	pozar.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 12:41
S79	703	(333/26).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/05/11 12:53
S80	904	(333/32).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/05/11 12:54
S81	1304	(333/33).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/05/11 12:54
S82	1097	(333/204).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/05/11 12:54
S83	3794	((333/26).CCLS.) or ((333/32). CCLS.) or ((333/33).CCLS.) or ((333/204).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 12:54

## EAST Search History

S84	476	((((333/26).CCLS.) or ((333/32).CCLS.) or ((333/33).CCLS.) or ((333/204).CCLS.)) and (microstrip or microstripline) and (hole or through-hole or opening or aperture)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 12:55
S85	365	(((((333/26).CCLS.) or ((333/32).CCLS.) or ((333/33).CCLS.) or ((333/204).CCLS.)) and (microstrip or microstripline) and (hole or through-hole or opening or aperture)) and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 12:56
S86	50	(((((333/26).CCLS.) or ((333/32).CCLS.) or ((333/33).CCLS.) or ((333/204).CCLS.)) and (microstrip or microstripline) and (hole or through-hole or opening or aperture)) and impedance ) and signal adj2 line and ground adj2 (plane or plate or line)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/29 18:37
S87	6	(US-5539361-\$ or US-5610563-\$ or US-3573670-\$ or US-3995239-\$ or US-4152680-\$ or US-4186352-\$).did.	USPAT	OR	OFF	2003/05/11 13:27
S88	2	((US-5539361-\$ or US-5610563-\$ or US-3573670-\$ or US-3995239-\$ or US-4152680-\$ or US-4186352-\$).did.) and impedance near12 (opening or hole or aperture) near12 (signal adj2 line or ground)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 16:40
S89	9215	((257/662) or (257/664) or (257/275) or (257/211) or (257/690) or (257/691) or (257/692) or (257/658) or (333/26) or (333/32) or (333/33) or (333/81) or (333/116) or (333/124) or (333/204)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/31 15:22
S90	23	((((257/662) or (257/664) or (257/275) or (257/211) or (257/690) or (257/691) or (257/692) or (257/658) or (333/26) or (333/32) or (333/33) or (333/81) or (333/116) or (333/124) or (333/204)).CCLS.) and impedance near12 (slit or hole or through-hole or aperture) near12 (ground or signal) and microstrip.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/14 16:18

## EAST Search History

S91	2	jp-11177247\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 18:48
S92	0	jp-0936504\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 18:49
S93	2	jp-09036504\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 18:55
S94	0	jp-090291216\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 18:52
S95	0	jp-060291216\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 18:53
S96	1	jp-06291216\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 19:26
S97	2	jp-05343820\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 18:56
S98	2	jp-05267913\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 18:56
S99	2	jp-05136597\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 19:28
S10 0	2	jp-62047163\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/05/11 19:37

## EAST Search History

S10 1	5	((("5793263") or ("3925740") or ("3659228") or ("5852391") or ("6509809")).PN.	USPAT; USOCR	OR	OFF	2003/05/11 19:49
S10 2	1	("5539361").PN.	USPAT; USOCR	OR	OFF	2003/05/11 19:49
S10 3	1	("3925740").PN.	USPAT; USOCR	OR	OFF	2003/10/29 19:11
S10 4	336	(333/116).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/10/29 19:14
S10 5	1	((333/116).CCLS.) and hole near15 signal adj line	US-PGPUB; USPAT	OR	ON	2003/10/29 19:15
S10 6	0	333/&9.ccls. and hole near15 signal	US-PGPUB; USPAT	OR	ON	2003/10/29 19:16
S10 7	526	"333"/\$9.ccls. and hole near15 signal	US-PGPUB; USPAT	OR	ON	2003/10/29 19:16
S10 8	25	"333"/\$9.ccls. and hole near6 signal adj line	US-PGPUB; USPAT	OR	ON	2003/10/29 19:25
S10 9	15	tuning near6 microstrip adj transmission adj line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/29 19:47
S11 0	9	tuning near6 microstrip adj transmission adj line and ground adj (plate plane)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/29 19:26
S11 1	1	tuning near6 microstrip adj transmission adj line and ground adj (plate plane) and "signal lines"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/29 19:28
S11 2	1	tuning near6 microstrip adj transmission adj line and ground adj (plate plane) and signal adj line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/29 19:37
S11 3	9	tuning near6 microstrip adj transmission adj line and ground adj (plate plane) and ((transmission signal) adj line strip adj conductor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/29 19:44
S11 4	9	tuning near6 microstrip adj transmission adj line and ground adj (plate plane) and ((transmission signal) adj line strip adj conductor microstrip adj line)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/29 19:45

## EAST Search History

S11 5	0	tuning near6 microstrip adj transmission adj line and ground adj (plate plane) and ((transmission signal) adj line strip adj conductor) and parallel near3 line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/29 19:45
S11 6	5	tuning near6 microstrip adj transmission adj line.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/29 20:02
S11 7	243	tuning near6 (microstrip transmission adj line) and "333"/\$9.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/29 20:03
S11 8	88	tuning near6 (microstrip transmission adj line).ti,ab,clm. and "333"/\$9.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/29 20:03
S11 9	88	tuning near6 (microstrip transmission adj line).ti,ab,clm. and "333"/\$9.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/29 21:00
S12 0	373	tuning near6 (microstrip transmission adj line).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/29 21:19
S12 1	1	("4672312").PN.	USPAT; USOCR	OR	OFF	2003/10/29 21:33
S12 2	118	ground adj (plane plate) near6 (screen\$3 shield\$3) near6 (transmission adj line microstrip signal adj lines)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/29 21:36
S12 3	118	ground adj (plane plate) near6 (screen\$3 shield\$3) near6 (transmission adj line microstrip signal adj lines) and ground	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/29 21:37
S12 4	1	("5793263").PN.	USPAT; USOCR	OR	OFF	2003/10/30 15:46
S12 5	1	("5793263").PN.	USPAT; USOCR	OR	OFF	2003/10/30 16:32
S12 6	1	("5539361").PN.	USPAT; USOCR	OR	OFF	2003/10/30 17:30

## EAST Search History

S12 7	1	("3659228").PN.	USPAT; USOCR	OR	OFF	2003/10/30 17:51
S12 8	21	(reduce reducing reduction decrease decreasing) near6 coupling and (increase increasing) near6 impedance and (microstrip adj line micro adj strip adj line signal adj line).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/30 19:24
S12 9	63	(transmission signal) adj line and ground adj (line plate plane) and impedance and ac adj coupling	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/30 19:35
S13 0	3669	(transmission signal) adj line and ground adj (line plate plane) and impedance and coupling	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/30 19:35
S13 1	97	(transmission signal) adj line and hole near12 ground adj (line plate plane) and impedance and coupling	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/30 19:36
S13 2	62	plurality near3 holes near6 (signal adj line transmission adj line)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 11:31
S13 3	32	plurality near3 holes near6 (signal adj line transmission adj line) and ground and (signal transmission microstrip)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 12:06
S13 4	41	plurality near3 (gap holes through-hole) near6 (signal adj line transmission adj line) and ground and (signal transmission microstrip)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 12:06
S13 5	56	plurality near3 (aperture gap holes through-hole) near6 (signal adj line transmission adj line) and ground and (signal transmission microstrip)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 12:24
S13 6	73	plurality near3 (aperture gap holes through-hole) near6 (signal adj line transmission adj line microstrip microstripline) and ground and (signal transmission microstrip)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/31 12:25



## EAST Search History

S13 7	0	(333/84m).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/31 15:23
S13 8	0	(333/84).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/31 15:23
S13 9	2	("3771075").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/08 10:55
S14 0	3	("3925740").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/08 16:22
S14 1	2	("6144268").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/08 16:22
S14 2	2	jp-05343564\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 16:36
S14 3	1467	((257/700) or (257/728)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/08 16:36
S14 4	17	((((257/700) or (257/728)).CCLS.) and hole near12 impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/08 18:29
S14 5	1089	"H01L023/12" "H01L023/14"	USPAT	OR	OFF	2004/07/08 18:33
S14 6	7	("H01L023/12" "H01L023/14") and signal adj line and impedance near4 (increase increased increasing higher)	USPAT	OR	OFF	2004/07/08 18:34

## EAST Search History

S14 7	1	("H01L023/12" "H01L023/14") and signal adj line and impedance near4 (increase increased increasing higher).ti,ab,clm.	USPAT	OR	OFF	2004/07/08 18:42
S14 8	1	"664094".ap.	US-PGPUB; USPAT	OR	OFF	2004/07/08 18:43
S14 9	1072	(257/691).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/08 18:43
S15 0	1439	(257/700).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/08 18:43
S15 1	665	(257/703).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/08 18:43
S15 2	1128	(257/704).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/08 18:43
S15 3	1137	(257/706).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/08 18:44
S15 4	355	(257/e23.061).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/08 18:44
S15 5	574	(257/e23.062).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/08 18:44

## EAST Search History

S15 6	807	(257/e23.189).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/08 18:44
S15 7	6271	((257/691).CCLS.) ((257/700). CCLS.) ((257/703).CCLS.) ((257/704).CCLS.) ((257/706). CCLS.) ((257/e23.061).CCLS.) ((257/e23.062).CCLS.) ((257/e23. 189).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/08 18:44
S15 8	83	((257/691).CCLS.) ((257/700). CCLS.) ((257/703).CCLS.) ((257/704).CCLS.) ((257/706). CCLS.) ((257/e23.061).CCLS.) ((257/e23.062).CCLS.) ((257/e23. 189).CCLS.)) and (signal adj line near6 hole ground adj (plate plane) near6 hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 18:47
S15 9	77	((257/691).CCLS.) ((257/700). CCLS.) ((257/703).CCLS.) ((257/704).CCLS.) ((257/706). CCLS.) ((257/e23.061).CCLS.) ((257/e23.062).CCLS.) ((257/e23. 189).CCLS.)) and (signal adj line near6 hole ground adj (plate plane) near6 hole)	US-PGPUB; USPAT	OR	ON	2004/07/08 19:31
S16 0	62	((257/691).CCLS.) ((257/700). CCLS.) ((257/703).CCLS.) ((257/704).CCLS.) ((257/706). CCLS.) ((257/e23.061).CCLS.) ((257/e23.062).CCLS.) ((257/e23. 189).CCLS.)) and (signal adj line near6 hole ground adj (plate plane) near6 hole)) and signal	US-PGPUB; USPAT	OR	ON	2004/07/08 19:31
S16 1	3	(US-6232660-\$ or US-6437426-\$ or US-5508556-\$).did.	USPAT	OR	OFF	2004/07/08 19:33
S16 2	2	((US-6232660-\$ or US-6437426-\$ or US-5508556-\$).did.) and signal and ground and hole	USPAT	OR	OFF	2004/07/08 19:41
S16 3	1516	(174/52.4).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/07/08 19:41
S16 4	25	((174/52.4).CCLS.) and signal and ground and hole and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/08 19:47

## EAST Search History

S16 5	304	signal adj line and ground adj pla?e and impedance near5 match\$3 and hole	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 19:48
S16 6	4	signal adj line and ground adj pla?e and impedance near5 match\$3 near5 hole	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 19:53
S16 7	8	signal adj line and ground adj pla?e and impedance near8 (match matching matches matched) near8 (aperture hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 19:54
S16 8	9	signal adj line and ground adj (plate plane) and impedance near8 (match matching matches matched) near8 (aperture hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 19:57
S16 9	2570	distributed adj capacitance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 19:57
S17 0	130	distributed adj capacitance and impedance near3 (match matched matches matching) and (hole holes)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 19:58
S17 1	21	distributed adj capacitance and impedance near3 (match matched matches matching) and (hole holes) and signal adj line and ground adj (plate plane)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 20:07
S17 2	334	impedance near4 (match matching matches matched) near4 (hole opening aperture)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 20:09
S17 3	6	impedance near4 (match matching matches matched) near4 (hole opening aperture) and ground adj (plate plane) and signal adj line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 20:38
S17 4	0	impedance near4 (match matching matches matched) near4 (hole opening aperture) and microstip	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 20:39

## EAST Search History

S17 5	72	impedance near4 (match matching matches matched) near4 (hole opening aperture) and microstrip	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 20:48
S17 6	49	impedance near4 (match matching matches matched) near4 (hole opening aperture) and microstrip and ground and signal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/08 20:49
S17 7	25	impedance near4 (match matching matches matched) near4 (hole opening aperture).ti,ab,clm. and microstrip and ground and signal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 10:43
S17 8	667	mounted adj printed adj circuit adj board.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 10:43
S17 9	0	mounted adj printed adj circuit adj board.ti. and nakajo.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 10:44
S18 0	2360	nakajo.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 10:44
S18 1	36	nakajo near2 tokuo.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 10:45
S18 2	2	nakajo near2 tokuo.in. and circuit adj board	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 10:44
S18 3	8	nakajo near2 tokuo.in. and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 10:45
S18 4	1	grand adj hole	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 11:29

## EAST Search History

S18 5	2	"5519176".pn. and width	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 11:37
S18 6	9	(decrease decreasing) near2 capacitance and (increase increasing) near2 impedance and (ceramic adj package circuit adj board) and signal adj line and ground adj (line plane plate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 11:39
S18 7	6	(decrease decreasing) near2 capacitance and (increase increasing) near2 impedance and (ceramic adj package circuit adj board) and signal adj line and ground adj (line plane plate) and (opening hole aperture)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 11:43
S18 8	42	(decrease decreasing decreases) near4 capacitance and (increase increasing increases) near4 impedance and (transmission signal) adj line and ground adj (line plane plate) and (opening hole aperture)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 11:45
S18 9	353	"333"/\$9.ccls. and impedance near4 (increase increasing higher) and (signal transmission) adj line and (reference ground) adj (plate plane line)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 17:13
S19 0	11	"333"/\$9.ccls. and impedance near4 (increase increasing higher) and (signal transmission) adj line near8 (hole aperture through-hole) and (reference ground) adj (plate plane line) near8 (hole aperture through-hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 17:25
S19 1	29	impedance near4 (increase increasing higher) and (signal transmission) adj line near8 (hole aperture through-hole) and (reference ground) adj (plate plane line) near8 (hole aperture through-hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 17:32

## EAST Search History

S19 2	32	capacitance near8 impedance and (signal transmission) adj line near8 (hole aperture through-hole) and (reference ground) adj (plate plane line) near8 (hole aperture through-hole)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 18:39
S19 3	3	("3925740").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/09 18:39

## EAST Search History

S19 4	83	(US-5793263-\$ or US-5568107-\$ or US-3573670-\$ or US-3995239-\$ or US-4186352-\$ or US-4152680-\$ or US-5633613-\$ or US-3659228-\$ or US-5611696-\$ or US-5508556-\$ or US-6437426-\$ or US-4383226-\$ or US-6143990-\$ or US-5235209-\$ or US-5852391-\$ or US-5185650-\$ or US-4879588-\$ or US-5894154-\$ or US-4896194-\$ or US-3925740-\$ or US-5739560-\$ or US-5294824-\$ or US-5304819-\$ or US-5666009-\$ or US-5744858-\$ or US-6356173-\$).did. or (US-6441471-\$ or US-6144268-\$ or US-6160313-\$ or US-6437431-\$ or US-6232849-\$ or US-6232660-\$ or US-5801599-\$ or US-5962926-\$ or US-3784883-\$ or US-5903239-\$ or US-3869787-\$ or US-6229180-\$ or US-5512901-\$ or US-5117277-\$ or US-4875087-\$ or US-6344667-\$ or US-6455880-\$ or US-6127901-\$ or US-5352998-\$ or US-4543544-\$ or US-5770981-\$ or US-5610563-\$ or US-5539361-\$ or US-5986521-\$ or US-5357229-\$ or US-5424693-\$ or US-4672312-\$).did. or (US-5019829-\$ or US-6509809-\$ or US-4110712-\$ or US-4034321-\$ or US-4947178-\$ or US-5825080-\$ or US-4899164-\$ or US-3771075-\$ or US-5278720-\$).did. or (US-20030076188-\$ or US-20010038146-\$ or US-20030099097-\$).did. or (JP-62047163-\$ or JP-05136597-\$ or JP-05267913-\$ or JP-09036504-\$ or JP-05166965-\$ or JP-62293801-\$ or JP-57129473-\$ or JP-05226497-\$ or JP-06120711-\$ or JP-05343564-\$ or JP-55053908-\$ or JP-05343820-\$).did. or (JP-06291216-\$ or JP-11177247-\$ or JP-09036504-\$ or JP-08335803-\$ or EP-651916-\$ or JP-60113502-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2004/07/09 19:09
S19 5	0	"333"/\$9.ccls. and impedance and capacitance and ground adj (plane plate line) and signal adj line and strips and slits	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/09 19:10



## EAST Search History

S19 6	10	impedance and capacitance and ground adj (plane plate line) and signal adj line and strips and slits	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/09 19:11
S19 7	14	ground adj (plane plate line) and signal adj line and strips and slits	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/09 19:11
S19 8	2429	ground adj (plane plate line) and signal adj line and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/09 19:12
S19 9	384	ground adj (plane plate line) and signal adj line and impedance near6 (reduce reduction reduced decrease decreased decreasing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/07/09 19:12
S20 0	372	ground adj (plane plate line) and signal adj line and impedance near6 (reduce reduction reduced decrease decreased decreasing) and (hole through-hole aperture strip)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 19:13
S20 1	43	ground adj (plane plate line) and (microstrip transmission signal) adj line and impedance near6 (reduce reduction reduced decrease decreased decreasing) and (hole through-hole aperture strip) near3 ground adj (plate plane line) and (hole through-hole aperture strip) near3 (microstrip transmission signal) adj line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/07/09 20:58
S26 0	2	jp-05343564\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 10:18
S26 1	9836	((257/662) or (257/664) or (257/275) or (257/211) or (257/690.2) or (257/758) or (257/690) or (257/691) or (257/692) or (333/81) or (333/116) or (333/124) or (333/204) or (333/26) or (333/32) or (333/33)).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/01/31 10:19

## EAST Search History

S26 2	1505	S261 and (microstrip micro-strip micro adj (strip strip-line stripline))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/31 10:21
S26 3	1505	S261 and (microstrip micro-strip micro adj (strip strip-line stripline))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/31 10:21
S26 4	221	S261 and (microstrip micro-strip micro adj (strip strip-line stripline)) and signal adj line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 10:22
S26 5	244	S261 and (microstrip micro-strip micro adj (strip strip-line stripline)) and signal adj (plate line strip lead)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 10:30
S26 6	128	S261 and (microstrip micro-strip micro adj (strip strip-line stripline)) and signal adj (plate line strip lead) and ground adj (plate plane strip lead)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 12:01
S26 7	30	S261 and (microstrip micro-strip micro adj (strip strip-line stripline)) and signal adj (plate line strip lead) and ground adj (plate plane strip lead) and (increase increasing improve improving improvement higher enhance enhanced enhancing enhancement) near4 (impedance resistance) and capacitance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 10:55
S26 8	9	S261 and (microstrip micro-strip micro adj (strip strip-line stripline)) and signal adj (plate line strip lead) and ground adj (plate plane strip lead) and (increase increasing improve improving improvement higher enhance enhanced enhancing enhancement) near12 (impedance resistance) near12 capacitance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 10:49

## EAST Search History

S26 9	12	S261 and (microstrip micro-strip micro adj (strip strip-line stripline)) and signal adj (plate line strip lead) and ground adj (plate plane strip lead) and (increase increasing improve improving improvement higher enhance enhanced enhancing enhancement) near12 (impedance inductance) near12 capacitance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 14:42
S27 0	4	S261 and signal adj line near10 ground adj (plate layer film) and (impedance inductance) near20 (opening aperture through adj hole hole gap)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 12:03
S27 1	2	wo-9423448\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 14:45
S27 2	7	((("5196725") or ("5220195") or ("5399804"))).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/31 14:53
S27 3	29	((("5196725") or ("5220195") or ("5399804") or ("4947178") or ("5793263") or ("3925740") or ("3659228") or ("5852391") or ("6509809") or ("5519176") or ("5539361") or ("5479138") or ("5568107") or ("5723908"))).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/31 14:55
S27 4	14	((("5196725") or ("5220195") or ("5399804") or ("4947178") or ("5793263") or ("3925740") or ("3659228") or ("5852391") or ("6509809") or ("5519176") or ("5539361") or ("5479138") or ("5568107") or ("5723908"))).PN.	USPAT	OR	OFF	2005/01/31 15:03
S27 5	7	first adj signal adj line and second adj signal adj line and ground adj (line plate plane layer) and capacitance and inductance and (through adj hole aperture opening)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/31 15:04

## EAST Search History

S27 6	1	capacitance near10 (through adh hole through-hole aperture opening) near10 impedance and (microstrip micro-strip micro adj strip stripline strip adj line strip-line) and signal adj line near10 ground adj (plate plane layer) and (sandwich sandwiched "between" opposite adj side "both sides")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 09:36
S27 7	0	capacitance near10 (through adh hole through-hole aperture opening) near10 impedance and signal adj line near10 ground adj (plate plane layer) near20 (sandwich sandwiched "between" opposite adj side "both sides")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 09:38
S27 8	13	(increase increasing increased improve improved improving "higher" enhance enhancing enhanced) near20 (through adh hole through-hole aperture opening) near20 impedance and signal adj line near10 ground adj (plate plane layer) near20 (sandwich sandwiched "between" opposite adj side "both sides")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 09:41
S27 9	16	(increase increasing increased improve improved improving "higher" enhance enhancing enhanced) near20 (slot slit gap through adh hole through-hole aperture opening) near20 impedance and signal adj line near10 ground adj (plate plane layer) near20 (sandwich sandwiched "between" opposite adj side "both sides")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 09:43
S28 0	16	(increase increasing increased improve improved improving "higher" enhance enhancing enhanced) near20 (void slot slit gap through adh hole through-hole aperture opening) near20 impedance and signal adj line near10 ground adj (plate plane layer) near20 (sandwich sandwiched "between" opposite adj side "both sides")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 09:54

## EAST Search History

S28 1	16	(increase increasing increased improve improved improving "higher" enhance enhancing enhanced) near20 (void slot slit gap through adh hole through-hole aperture opening) near20 impedance and signal adj line near10 (shield shielding ground) adj (plate plane layer) near20 (sandwich sandwiched "between" opposite adj side "both sides")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:03
S28 2	16	(increase increasing increased improve improved improving "higher" enhance enhancing enhanced) near20 (void slot slit gap through adh hole through-hole aperture opening) near20 impedance and signal adj line near10 (shield shielding ground) adj (plate plane layer) near20 (sandwich sandwiched "between" opposite adj side "both sides") and signal adj line and (ground shielding)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:18
S28 3	18	(increase increasing increased improve improved improving "higher" enhance enhancing enhanced) near20 (void slot slit gap through adh hole through-hole aperture opening) near20 impedance and (transmission signal) adj line near10 (shield shielding ground) adj (plate plane layer) near20 (sandwich sandwiched "between" opposite adj side "both sides") and signal adj line and (ground shielding)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/02 13:19

## EAST Search History

S28 4	8	(increase increasing increased improve improved improving "higher" enhance enhancing enhanced) near20 (void slot slit gap through adh hole through-hole aperture opening) near20 impedance and (transmission signal) adj line near10 (shield shielding ground) adj (plate plane layer) near20 (sandwich sandwiched "between" opposite adj side "both sides") and signal adj line and (ground shielding) and (stack stacked stacking)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:28
S28 5	4	("6225568").URPN.	USPAT	OR	OFF	2005/02/01 10:32
S28 6	3	(stack stacking stacked) near10 (shielding shield ground) adj (plane plate layer) near20 (signal transmission) adj (line strip)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:42
S28 7	3	(stack stacking stacked) near10 (shielding shield ground) adj (plane plate layer) near20 (signal transmission) adj (line strip) and (capacitance impedance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 10:42
S28 8	867	((("257/662") or ("257/664") or ("257/275") or ("257/758") or ("257/211") or ("257/690") or ("257/691") or ("257/692")).CCLS. ) and (stacking stacked stack) near10 ((signal transmission) adj line layer strip)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 13:53
S28 9	37	((("257/662") or ("257/664") or ("257/275") or ("257/758") or ("257/211") or ("257/690") or ("257/691") or ("257/692")).CCLS. ) and (stacking stacked stack) near10 ((signal transmission) adj (line layer strip))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 14:23
S29 0	11	((("257/662") or ("257/664") or ("257/275") or ("257/758") or ("257/211") or ("257/690") or ("257/691") or ("257/692")).CCLS. ) and (stacking stacked stack) near10 ((signal transmission) adj (line layer strip)) and ground adj (plane plate layer strip)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 14:31

## EAST Search History

S29 1	0	((("257/662") or ("257/664") or ("257/275") or ("257/758") or ("257/211") or ("257/690") or ("257/691") or ("257/692")).CCLS. ) and (stacking stacked stack) near20 ((signal transmission) adj (line layer strip)) near20 ground adj (plane plate layer strip)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 14:32
S29 2	6	(stacking stacked stack) near20 ((signal transmission) adj (line layer strip)) near20 ground adj (plane plate layer strip)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 14:38
S29 3	1	S292 and "31" same "21"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/01 14:38
S29 4	2	("3771075").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/02 13:56
S29 5	2	("5723908").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/02 13:57
S29 6	2	("5479138").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/03 11:28
S29 7	532	(signal transmission) adj (plate layer line) near4 (opening aperture through-hole through adj hole) and ground adj (plane plate layer line)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 11:30
S29 8	371	(signal transmission) adj (plate layer line) near4 (opening aperture through-hole through adj hole) and ground adj (plane plate layer line) and (capacitance inductance impedance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 11:30
S29 9	128	(signal transmission) adj (plate layer line) near4 (opening aperture through-hole through adj hole) and ground adj (plane plate layer line) near20 (capacitance inductance impedance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 12:17

## EAST Search History

S30 0	1500	yttrium adj iron adj garnet	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 12:17
S30 1	634	yttrium adj iron adj garnet.ti,ab, clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 12:17
S30 2	3	yttrium adj iron adj garnet.ti,ab, clm. and garnet near4 (conductivity resistivity resistance conductance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 12:38
S30 3	1320	(opening aperture void slot slit) near2 (transmission signal) adj (line layer plate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 12:40
S30 4	161	(opening aperture void slot slit) near2 (transmission signal) adj (line layer plate) and circuit and ground adj (plate plane layer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 12:43
S30 5	129	(opening aperture void slot slit) near2 (transmission signal) adj (line layer plate) and circuit and ground adj (plate plane layer) and (capacitance impedance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 13:10
S30 6	146	slot adj transmission adj lines.ti, ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 13:26
S30 7	43	aperture near2 transmission adj line.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 13:34
S30 8	29	through adj hole near2 transmission adj line.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 14:11
S30 9	2	"6523728"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 13:45



## EAST Search History

S31 0	32	"5523728"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 13:45
S31 1	2	("5523728").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/03 13:53
S31 2	0	("balun.ti.andcircuit").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/03 13:53
S31 3	489	balun.ti. and circuit	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/03 13:54
S31 4	419	balun.ti. and circuit.ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/03 13:55
S31 5	0	balun.ti. and circuit.ti,ab,clm. and "balun ("5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/03 13:55
S31 6	0	balun.ti. and circuit.ti,ab,clm. and "balun ("510	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/03 13:56
S31 7	7	balun.ti. and circuit.ti,ab,clm. and low adj dielectric adj constant	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/03 13:59
S31 8	0	fluroplastic and transmission adj line and ground adj (plane plate layer) and (stacking stack stacked)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 14:09
S31 9	1	fluroplastic and (signal transmission) adj line and ground adj (plane plate layer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 14:10

## EAST Search History

S32 0	93	(aperture opening slit slot through adj hole) near2 (signal transmission) adj line.ti,ab,clm. and ground adj (plane plate layer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/03 14:13
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## EAST Search History

S32 1	127	(US-20010010270-\$ or US-20010010271-\$ or US-20010038146-\$ or US-20020105083-\$ or US-20030076188-\$ or US-20030099097-\$ or US-20040000701-\$ or US-20040252058-\$ or US-20040007313-\$ or US-20040009666-\$).did. or (US-3573670-\$ or US-3659228-\$ or US-3771075-\$ or US-3784883-\$ or US-3869787-\$ or US-3925740-\$ or US-3995239-\$ or US-4034321-\$ or US-4110712-\$ or US-4152680-\$ or US-4186352-\$ or US-4383226-\$ or US-4543544-\$ or US-4551746-\$ or US-4551747-\$ or US-4672312-\$ or US-4739448-\$ or US-4875087-\$ or US-4879588-\$ or US-4896194-\$ or US-4899164-\$ or US-4947178-\$ or US-5019829-\$ or US-5117277-\$ or US-5185650-\$ or US-5235209-\$).did. or (US-5278720-\$ or US-5294824-\$ or US-5304819-\$ or US-5352998-\$ or US-5357229-\$ or US-5424693-\$ or US-5467068-\$ or US-5508556-\$ or US-5512901-\$ or US-5523728-\$ or US-5528209-\$ or US-5539361-\$ or US-5568107-\$ or US-5610563-\$ or US-5611696-\$ or US-5629559-\$ or US-5633613-\$ or US-5634208-\$ or US-5666009-\$ or US-5723908-\$ or US-5739560-\$ or US-5744858-\$ or US-5770981-\$ or US-5793263-\$ or US-5801599-\$ or US-5825080-\$ or US-5852391-\$).did. or (US-5894154-\$ or US-5903239-\$ or US-5945890-\$ or US-5962926-\$ or US-5986521-\$ or US-6018283-\$ or US-6023206-\$ or US-6023209-\$ or US-6023210-\$ or US-6040621-\$ or US-6127901-\$ or US-6143990-\$ or US-6144268-\$ or US-6160313-\$ or US-6225568-\$ or US-6229180-\$ or US-6232660-\$ or US-6232849-\$ or US-6344667-\$ or US-6356173-\$ or US-6372996-\$ or US-6437426-\$ or US-6437431-\$ or US-6441471-\$ or US-6455880-\$ or US-6509809-\$ or US-6590466-\$).did. or (US-6664935-\$ or US-6678540-\$ or US-6714113-\$ or US-6727777-\$ or US-6774741-\$ or US-6815739-\$ or US-6864024-\$ or US-6900906-\$ or US-4543543-\$ or US-4521753-\$ or US-3643234-\$ or US-3511107-\$ or US-4108580-\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/02/03 14:42
10/13/06 7:56:41 PM H:\Backup_old_East\09864024.wsp						Page 35

## EAST Search History

S32 2	2	S321 and macdonald.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/02/03 16:00
S32 3	2	("5479138").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/03 16:00
S32 4	2	("4521753").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/13 16:56
S32 5	1	slit near4 (signal transmission) adj line near10 impedance near10 (adjust\$4 match\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/14 09:13
S32 6	1	slit near4 (signal transmission) adj line near20 impedance near20 (adjust\$4 match\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/14 09:13
S32 7	19	slit near4 (signal transmission) adj line and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/14 09:21
S32 8	19	slit near4 (signal transmission) adj line and impedance and slit	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/14 09:30
S32 9	2	jp-06232601\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/14 10:40
S33 0	5	"772673".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/14 10:57
S33 1	0	broad-side adj coupled with slits	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/14 10:58

## EAST Search History

S33 2	0	mmic with slits and (signal transmission) adj line with ground	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/14 10:59
S33 3	4	slits with (signal transmission) adj line with ground and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/14 11:07
S33 4	4	slits with (signal transmission) adj line with impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/14 11:09
S33 5	18	slits near6 (signal transmission) adj line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/14 11:12
S33 6	4	slits near6 (signal transmission) adj line and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/14 11:23
S33 7	16	slits near10 (signal transmission) adj line and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/14 11:37
S33 9	64	(through-holes "through" adj holes slit adj holes slits) near10 (signal transmission) adj line and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/14 12:00
S34 0	44	(slotline slot adj line) near10 (signal transmission) adj line and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/14 12:00
S34 1	35	(slotline slot adj line) near4 (signal transmission) adj line and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/14 12:01
S34 2	6	(slotline slot adj line) near4 (signal transmission) adj line with impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/14 12:10

## EAST Search History

S34 3	103	impedance adj matching near6 (transmission signal) with (slit slot void aperture opening)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/14 12:12
S34 4	12	impedance adj matching near6 (transmission signal) with (slit slot void aperture opening) with ground	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/14 12:24
S34 5	2	jp-05063346\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/14 12:24
S34 6	16	(slit adj holes slits) near10 (signal transmission) adj line and impedance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/14 15:26
S34 7	13688	((257/700) or (257/750) or (257/758) or (257/773) or (257/775) or (257/776) or (257/662) or (257/663) or (257/664) or (257/211) or (257/275) or (257/690) or (257/691) or (257/692) or (333/26) or (333/32) or (333/33) or (333/116) or (333/124) or (333/204)).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/07/14 16:20
S34 8	234	S347 and (slit slot void aperture opening hole through-hole) with (signal transmission) with ground and impedance	US-PGPUB; USPAT	OR	ON	2005/07/14 16:22
S34 9	5345	(slit through adj hole through-hole opening aperture void) near6 ((signal transmission) adj (line wire wiring) microstrip)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/16 06:10
S35 0	630	(slit through adj hole through-hole opening aperture void) near6 ((signal transmission) adj (line wire wiring) microstrip) and impedance and ground adj (plate plane)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/16 06:11

## EAST Search History

S35 1	368	(slit through adj hole through-hole opening aperture void) near6 ((signal transmission) adj (line wire wiring) microstrip) and impedance and ground adj (plate plane) and (adjust\$3 match\$3 tailor\$3) near4 (capacitance impedance resistance conductance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/16 06:12
S35 2	142	(slit through adj hole through-hole opening aperture void) near6 ((signal transmission) adj (line wire wiring) microstrip) and impedance and ground adj (plate plane) and (adjust\$3 match\$3 tailor\$3) near4 (capacitance impedance resistance conductance) and (semiconductor mmic integrated adj circuit ic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/16 06:46
S35 3	57	(slit through adj hole through-hole opening aperture void) near6 ((signal transmission) adj (line wire wiring) microstrip) and impedance and ground adj (plate plane) and (adjust\$3 match\$3 tailor\$3) near4 (capacitance impedance resistance conductance) and (semiconductor mmic integrated adj circuit ic) and stripline	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/16 06:23
S35 4	85	S352 not S353	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/16 06:49
S35 5	226	S351 not S352	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/16 07:15
S35 6	949	((343/820) or (343/822) or (343/850) or (343/852) or (343/860)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/16 07:48
S35 7	0	S356 and (apertures openings through-holes voids through adj holes) near3 (strip adj line stripline microstrip signal adj line transmission adj line)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/16 07:17

## EAST Search History

S35 8	10	S356 and (apertures openings through-holes voids through adj holes) near3 (strip adj line stripline microstrip signal adj line transmission adj line)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/16 07:19
S35 9	8	S356 and (apertures openings through-holes voids through adj holes) near3 (strip adj line stripline microstrip signal adj line transmission adj line) and ground	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/16 07:37
S36 0	6	("6483714").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/16 07:37
S36 1	18437	((343/820) or (343/822) or (343/850) or (343/852) or (343/860) or (257/662) or (257/663) or (257/664) or (257/690) or (257/691) or (257/692) or (257/700) or (257/750) or (257/758) or (257/773) or (257/775) or (257/776) or (333/26) or (333/32) or (333/33) or (333/116) or (333/124) or (333/204)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/16 07:50
S36 2	188	S361 and (aperture opening void through-hole slit slot through adj hole) near4 (signal adj line transmission adj line microstrip stripline strip adj line) and ground adj (plane plate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/16 07:51
S36 3	3	"664094".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/28 14:54
S36 4	2	("4521753").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/28 14:54



## EAST Search History

S36 5	18296	((257/662) or (257/663) or (257/664) or (257/700) or (257/750) or (257/758) or (257/773) or (257/690) or (257/691) or (257/692) or (333/26) or (333/32) or (333/33) or (333/116) or (333/124) or (333/204) or (343/820) or (343/822) or (343/850) or (343/852) or (343/860)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/29 10:37
S36 6	27	S365 and integrated adj circuit.ti, ab,clm. and (semiconductor silicon) and ((strip near2 conductor) stripline microstripline micro adj stripline strip adj line signal adj line).ti,ab,clm. and ground near1 (plate plane).ti,ab, clm. and (through adj hole hole aperture opening slit slot void).ti, ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/29 10:43
S36 7	10	S365 and integrated adj circuit.ti, ab,clm. and (semiconductor silicon) and ((strip near2 conductor) stripline microstripline micro adj stripline strip adj line signal adj line).ti,ab,clm. and ground near1 (plate plane).ti,ab, clm. and (through adj hole hole aperture opening slit slot void).ti, ab,clm. and @ad<"19990921"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/29 17:23
S36 8	3	"664094".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/29 17:23
S36 9	803	(void aperture opening slit slot) near4 (ground near1 (plate plane conductor)) and impedance near4 match\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 12:51
S37 0	139	(void aperture opening slit slot) near4 (ground near1 (plate plane conductor)) and impedance near4 match\$3 and (first second) adj (signal strip stripline microstrip)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 13:00
S37 1	84	(void aperture opening slit slot) near4 (ground near1 (plate plane conductor)) and impedance near4 match\$3 and (first second) adj (signal strip stripline microstrip) and @ad<"20000920"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 13:15

## EAST Search History

S37 2	84	(void aperture opening slit slot) near4 (ground near1 (plate plane conductor)) and impedance near4 match\$3 and (first second) adj (signal strip stripline microstrip microstrip) and @ad<"20000920"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 16:53
S37 3	152	(slit slot) near4 (signal adj line microstrip adj line micro adj strip adj line) and impedance near4 match\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 16:55
S37 4	45	(slit slot) near4 (signal adj line microstrip adj line micro adj strip adj line) and impedance near4 match\$3 and @ad<"20000930" and ground adj (plate plane)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 17:13
S37 5	0	slit near4 (signal adj line microstrip adj line strip adj line) and impedance near7 match\$3 and @ad<"20000930" and ground adj (plate plane)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 17:14
S37 6	20	(aperture slit opening void) near3 (signal adj line microstrip adj line strip adj line) and impedance near7 match\$3 and @ad<"20000930" and ground adj (plate plane)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 17:25
S37 7	41	(aperture slit opening void hole through-hole) near3 (signal adj line microstrip adj line strip adj line) and impedance near7 match\$3 and @ad<"20000930" and ground adj (plate plane)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 17:51
S37 8	4	(aperture slit opening void hole through-hole) near3 (signal adj line microstrip adj line strip adj line) near8 (ladder-shaped ladder)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 17:54
S37 9	1	jp-58201292\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 18:20
S38 0	359	microwave and ladder and (signal transmission strip) near1 line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 18:21

## EAST Search History

S38 1	34	microwave and (ladder with (signal transmission strip) near1 line)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 18:21
S38 2	21	microwave and (ladder with (signal transmission strip) near1 line) and ground	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 18:32
S38 3	1529	(microstripline micro adj strip adj line micro adj stripline).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 18:33
S38 4	133	(microstripline micro adj strip adj line micro adj stripline).ti,ab,clm. and ground adj (plate plane)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 18:34
S38 5	71	(microstripline micro adj strip adj line micro adj stripline).ti,ab,clm. and ground adj (plate plane) and @ad<"20000930"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 19:11
S38 6	2	("6225958").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/30 18:41
S38 7	71	(microstripline micro adj strip adj line micro adj stripline).ti,ab,clm. and ground adj (plate plane) and @ad<"20000930"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 19:12
S38 8	1	(microstripline micro adj strip adj line micro adj stripline).ti,ab,clm. and ground adj (plate plane) and @ad<"20000930" and ladder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 19:12
S38 9	3	(microstripline micro adj strip adj line micro adj stripline).ti,ab,clm. and ground adj (plate plane) and @ad<"20000930" and (ladder groove ladder-shape\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 19:13

## EAST Search History

S39 0	3	(microstripline micro adj strip adj line micro adj stripline).ti,ab,clm. and ground adj (plate plane) and @ad<"20000930" and (ladder groove ladder-shape\$1 (array near3 slit))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 19:19
S39 1	6	(microstripline micro adj strip adj line micro adj stripline).ti,ab,clm. and ground adj (plate plane) and @ad<"20000930" and (ladder groove ladder-shape\$1 (array near3 (aperture opening slit)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 19:21
S39 2	357	(microstripline micro adj strip adj line micro adj stripline signal adj line transmission adj line feedline feed adj line).ti,ab,clm. and ground adj (plate plane) and @ad<"20000930" and (ladder groove ladder-shape\$1 (array near3 (aperture opening slit)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 19:22
S39 3	82	(microstripline micro adj strip adj line micro adj stripline signal adj line transmission adj line feedline feed adj line).ti,ab,clm. and ground adj (plate plane) and @ad<"20000930" and (ladder groove ladder-shape\$1 (array near3 (aperture opening slit))).ti, ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 19:24
S39 4	28	(microstripline micro adj strip adj line micro adj stripline signal adj line transmission adj line feedline feed adj line).ti,ab,clm. and ground adj (plate plane) and @ad<"20000930" and (ladder ladder-shape\$1 (array near3 (aperture opening slit))).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/30 19:24
S39 5	3	"664094".AP.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 11:36
S39 6	0	("664094.ap.").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/11 16:43

## EAST Search History

S39 7	4	"664094".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/11 17:00
S39 8	2	"6023210".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/11 17:00
S39 9	2	"6084548".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/11 17:17
S40 0	4	S398 S399	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/11 17:17
S40 1	0	S400 and (row column matrix matrices)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 17:22
S40 2	68	(microstrip near5 (consisting comprising) near5 (plurality near2 microstrip))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 17:26
S40 3	0	(microstrip near5 (consisting comprising) near5 (plurality near2 microstrip))and @ad<"2000920"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 17:49
S40 4	0	(microstrip near5 (consisting comprising) near5 (plurality near2 microstrip)) and @ad<"2000920"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 17:49
S40 5	36	(microstrip near5 (consisting comprising) near5 (plurality near2 microstrip)) and @ad<"20000920"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 17:50
S40 6	27	(microstrip near5 (consisting comprising) near5 (plurality near2 microstrip)) and ground and @ad<"20000920"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 17:50

## EAST Search History

S407	21	(microstrip near5 (consisting comprising) near5 (plurality near2 microstrip)) and ground and signal and @ad<"20000920"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 18:28
S408	2	("6084548").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/11 18:37
S409	1	CA-2256171\$-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/11 18:38
S410	28	((("257/662") or ("257/664") or ("257/275") or ("257/758") or ("257/211") or ("257/690") or ("257/691") or ("257/692")).CCLS. ) and ((hole or aperture or gap) near15 ((signal or transmission) adj2 line)) near15 (capacitance or impedance or signal adj speed or propagation adj speed)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 08:37
S411	14	((("257/662") or ("257/664") or ("257/275") or ("257/758") or ("257/211") or ("257/690") or ("257/691") or ("257/692")).CCLS. ) and ((hole or aperture or gap) near15 ((signal or transmission) adj2 line)) near15 (capacitance or impedance or signal adj speed or propagation adj speed) and @ad<"19990921"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 08:43
S412	1	((("257/662") or ("257/664") or ("257/275") or ("257/758") or ("257/211") or ("257/690") or ("257/691") or ("257/692")).CCLS. ) and ((hole or aperture or gap) near15 (ground adj (plate plane)) near15 (capacitance or impedance or signal adj speed or propagation adj speed)) and @ad<"19990921"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 08:44
S413	5	(through-hole through adj hole) near4 ground adj (plate plane) and (microstripline micro-stripline micro adj stripline micro adj strip adj line microstrip micro-strip stripline).ti,ab,clm. and signal adj line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 08:52

## EAST Search History

S41 4	3	(through-hole through adj hole) near4 ground adj (plate plane) and (microstripline micro-stripline micro adj stripline micro adj strip adj line microstrip micro-strip stripline) and signal adj line and matrix	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 09:02
S41 5	9	(through-hole through adj hole) near4 ground adj (plate plane) and (microstripline micro-stripline micro adj stripline micro adj strip adj line microstrip micro-strip stripline) and signal adj line and (array matrix)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 09:12
S41 6	14	(through-hole through adj hole) near4 ground adj (plate plane) and (microstripline micro-stripline micro adj stripline micro adj strip adj line microstrip micro-strip stripline) and signal adj line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 09:15
S41 7	1	(maze grid) near4 ground adj (plate plane) and (microstripline micro-stripline micro adj stripline micro adj strip adj line microstrip micro-strip stripline) and signal adj line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 09:15
S41 8	1	"4494172".PN.	USPAT; USOCR	OR	OFF	2006/10/13 09:18
S41 9	1	"4553111".PN.	USPAT; USOCR	OR	OFF	2006/10/13 09:19
S42 0	1	"4675789".PN.	USPAT; USOCR	OR	OFF	2006/10/13 09:25
S42 1	1	"4775573".PN.	USPAT; USOCR	OR	OFF	2006/10/13 09:28
S42 2	1	"4996097".PN.	USPAT; USOCR	OR	OFF	2006/10/13 09:29
S42 3	1	"5079069".PN.	USPAT; USOCR	OR	OFF	2006/10/13 09:31
S42 4	3	plated adj (through-hole through adj hole) near6 teflon	USPAT; USOCR	OR	ON	2006/10/13 09:32
S42 5	3	plated adj (through-hole through adj hole) near6 teflon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 09:33

## EAST Search History

S42 6	226	plated adj (through-hole through adj hole) near8 (coating coated teflon)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 09:34
S42 7	151	plated adj (through-hole through adj hole) near4 (coating coated teflon)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 09:34
S42 8	92	plated adj (through-hole through adj hole) near4 (coating coated teflon) and @ad<"19990921"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 09:34
S42 9	1	"5155655".PN.	USPAT; USOCR	OR	OFF	2006/10/13 10:13
S43 0	1	"5161086".PN.	USPAT; USOCR	OR	OFF	2006/10/13 10:18
S43 1	27	(aperture through-hole through adj hole) near4 ground adj (plate plane) same (signal adj line)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 10:19
S43 2	11	(aperture through-hole through adj hole) near4 ground adj (plate plane) same (signal adj line) and @ad<"20000921"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 10:23
S43 3	50	(aperture through-hole through adj hole) near4 ground adj (plate plane) and (signal adj line) and @ad<"20000921"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:25



## EAST Search History

S43 4	6526	("via" "vias") near4 (sidewall sidewalls side adj wall) and @ad<"20000921"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:29
S43 5	18	(plated adj through-hole) near4 (sidewall sidewalls side adj wall) and @ad<"20000921"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:37
S43 6	123	("via" "vias") near4 (sidewall sidewalls side adj wall) and ground adj (plate plane) and @ad<"20000921"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:38
S43 7	27	("via" "vias") near4 (sidewall sidewalls side adj wall) and ground adj (plate plane) and (microstrip micro-strip) and @ad<"20000921"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 12:39

## EAST Search History

S43 8	197	(US-20010038146-\$ or US-20020126048-\$ or US-20030076188-\$ or US-20020028390-\$ or US-20020185730-\$ or US-20020105083-\$ or US-20030099097-\$ or US-20040000701-\$ or US-20010010271-\$ or US-20040252058-\$ or US-20040009666-\$ or US-20010010270-\$ or US-20040007313-\$ or US-20040090565-\$ or US-20050139980-\$ or US-20050208757-\$ or US-20050200023-\$ or US-20030109083-\$ or US-20030106709-\$ or US-20020068441-\$ or US-20050225492-\$).did. or (US-6271579-\$ or US-5852391-\$ or US-5185650-\$ or US-4879588-\$ or US-5739560-\$ or US-4896194-\$ or US-6232660-\$ or US-6040621-\$ or US-5723908-\$ or US-5801599-\$ or US-4383226-\$ or US-6232849-\$ or US-6455880-\$ or US-5528209-\$ or US-5986521-\$ or US-5352998-\$ or US-5057798-\$ or US-3573670-\$ or US-5633613-\$ or US-4543544-\$ or US-3925740-\$ or US-6127901-\$ or US-5634208-\$ or US-6144268-\$ or US-5752182-\$ or US-5426399-\$).did. or (US-4967171-\$ or US-6441471-\$ or US-6344667-\$ or US-6356173-\$ or US-6023209-\$ or US-4875087-\$ or US-5903239-\$ or US-6437431-\$ or US-6229180-\$ or US-3784883-\$ or US-6160313-\$ or US-6066878-\$ or US-5894154-\$ or US-5744858-\$ or US-5294824-\$ or US-3869787-\$ or US-4947178-\$ or US-5962926-\$ or US-5666009-\$ or US-5304819-\$ or US-5117277-\$ or US-4110712-\$ or US-4034321-\$ or US-6509809-\$ or US-5019829-\$ or US-5793263-\$ or US-6377217-\$).did. or (US-6060959-\$ or US-5945890-\$ or US-5770981-\$ or US-5610563-\$ or US-5523728-\$ or US-5539361-\$ or US-4679249-\$ or US-4186352-\$ or US-4152680-\$ or US-3995239-\$ or US-5023624-\$ or US-3659228-\$ or US-4118670-\$ or US-5424693-\$ or US-4851793-\$ or US-5357229-\$ or US-4677313-\$ or US-5467068-\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/13 15:11
10/13/06 7:56:41 PM H:\Backup_old_East\09664024.wsp						Page 50

## EAST Search History

S43 9	131	S438 and width	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/13 15:11
S44 0	78	S438 and width near4 line	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/13 18:14
S44 1	0	slit and signal adj line and ground adj plate and "mu.m." near4 width	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/13 18:15
S44 2	10	slit and signal adj line and ground adj plate and width	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/13 18:16
S44 3	26	slit and (transmission signal) adj line and ground adj plate and width	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/13 18:18
S44 4	19	slit near6 ground adj plate and width	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/13 18:21
S44 5	35	slit near6 ground adj (plane plate) and width and (signal transmission)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/13 18:25
S44 6	0	slit near6 (ground adj (plane plate)) near10 "mu.m" and width and (signal transmission)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/13 18:26
S44 7	113326	"mu.m" and width and (signal transmission)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/13 18:26
S44 8	1523	"mu.m" near6 slit and width and (signal transmission)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/13 18:26
S44 9	859	"mu.m" near6 slit near6 width and (signal transmission)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/13 18:27
S45 0	18	"mu.m" near6 slit near6 width near6 (signal transmission ground adj plate)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/10/13 19:49